

December 20, 2005

Ms. Nicole Damin Hazardous Materials Specialist Stanislaus County Department of Environmental Resources 3800 Cornucopia Way, Suite C Modesto, California 95358

06043

06.a4

RE: Well Destruction Report
ARCO Service Station No. 6043
2101 Tully Road, Modesto, California

Dear Ms. Damin:

URS Corporation Americas (URS), on behalf of Atlantic Richfield Company (ARCO - a BP affiliated company), has prepared this report to document well destruction activities conducted at ARCO Station No. 6043 located at 2101 Tully Road, Modesto, California (Figures 1 and 2). The destruction of site monitoring wells was requested by the Stanislaus County Department of Environmental Resources (SCDER) to obtain closure for the site.

#### **Permitting**

Well destruction permits were obtained from the SCDER and the City of Modesto prior to conducting field activities on the site. (Attachment A)

#### **Well Destruction Activities**

On October 5, 2005, monitoring well MW-3 was hand cleared for utilities to 5 feet below ground surface (bgs) by air-knife, back-filled with sand, and capped with cold-patch asphalt. Vapor extraction well locations V-1 and V-2 were cleared to refusal (approximately 1.5 feet bgs due to concrete encountered) by air-knife, back-filled with sand, and capped with cold-patch asphalt. Monitoring well MW-1 and vapor wells VW-1 and VW-2 were located too close to (or within) the underground storage tank (UST) pit to be drilled out; therefore, this location was not hand cleared by air-knife. Additionally, monitoring well locations MW-2 and MW-4 were not hand cleared because they were built with vaults that were approximately 31-inch in diameter with concrete floors, which could cause a safety hazard for the vac clearing crew. The SCDER was notified of the conditions found on site and alternatives to well destruction activities described in the Well Destruction Workplan (URS, 2005) were discussed.

On November 2, 2005, Woodward Drilling Company, Inc. of Rio Vista, California, conducted well destruction activities. The monitoring wells (MW-1, MW-2, MW-3, and MW-4) and vapor wells (V-1, V-2, VW-1, and VW-2) were pressure grouted with neat cement grout containing <5% bentonite powder. Pneumatic pressure was applied at the top of casing to ensure filter pack infiltration. Any horizontal piping associated with the former remediation system was broken to allow the neat-cement grout to fill the void. The vault boxes for well locations MW-1, MW-2, MW-4, VW-1, and VW-2 were filled to within 4-inches of the surface with neat cement grout containing <5% bentonite powder. The vault covers were put back in place to allow the grout to set. Monitoring well MW-3 was drilled out to 5 feet bgs using 10-inch outside-diameter (OD) hollow stem augers, back-filled with neat cement grout containing <5% bentonite powder to near surface, then completed with Cal-Trans Set-45 concrete that

URS Corporation Crown Corporate Center 2870 Gateway Oaks Drive, Suite 150 Sacramento, CA 95833 Tel: 916.679.2000 Fax: 916.679.2900



Ms. Nicole Damin Stanislaus County Department of Environmental Resources December 20, 2005

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was tinted to match the surrounding surface. The vault boxes for V-1 and V-2 were removed, the casings cut down to approximately 1.5 feet bgs, then finished with fast-set concrete and tinted to match the surrounding surface.

On November 22, 2005, Woodward Drilling returned to finish the concrete surface completions for well locations MW-1, MW-2, MW-4, VW-1, and VW-2 using Cal-Trans Set-45 concrete.

#### **Waste Disposal**

Drill cuttings, wastewater, and well vault box waste generated during well destruction activities were placed in labeled 55-gallon Department of Transportation (DOT)-approved steel drums and stored on site. A composite soil sample was collected from the soil cuttings and submitted to the Sequoia Analytical Laboratory in Morgan Hill, California, for analysis of gasoline range organics (GRO), benzene, toluene, ethylbenzene, and total xylenes (BTEX), methyl tert-butyl ether (MtBE), tert-butyl alcohol (TBA), ethyl tert-butyl ether (EtBE), di-isopropyl ether (DIPE), tert-amyl methyl ether (TAME), 1,2-dicholoroethane (1,2-DCA), 1,2-dibromoethane (EDB), and ethanol by EPA Method 8260B (preparation EPA Method 5030), and total lead by EPA Method 6010B. The laboratory analytical report is included in Attachment B.

Removal of the drill cuttings, wastewater, and well vaults in drums from the site was scheduled with Dillard Trucking, Inc. Upon receipt of disposal manifests from the waste hauler, a report addendum will be submitted documenting field activities.

If you have any questions or comments regarding this letter report, please call Ms. Margaret Hogaboom at (916) 679-2241.

Vernon Elarth, R.G.

Project Manager

Sincerely,

**URS Corporation Americas** 

Margaret Hogaboom

Staff Geologist

Attachments:

Figure 1

Site Location Map

Figure 2

Site Map

Attachment A SCDER and City of Modesto Well Destruction Permits

Attachment B Drum Comp Laboratory Analytical Report

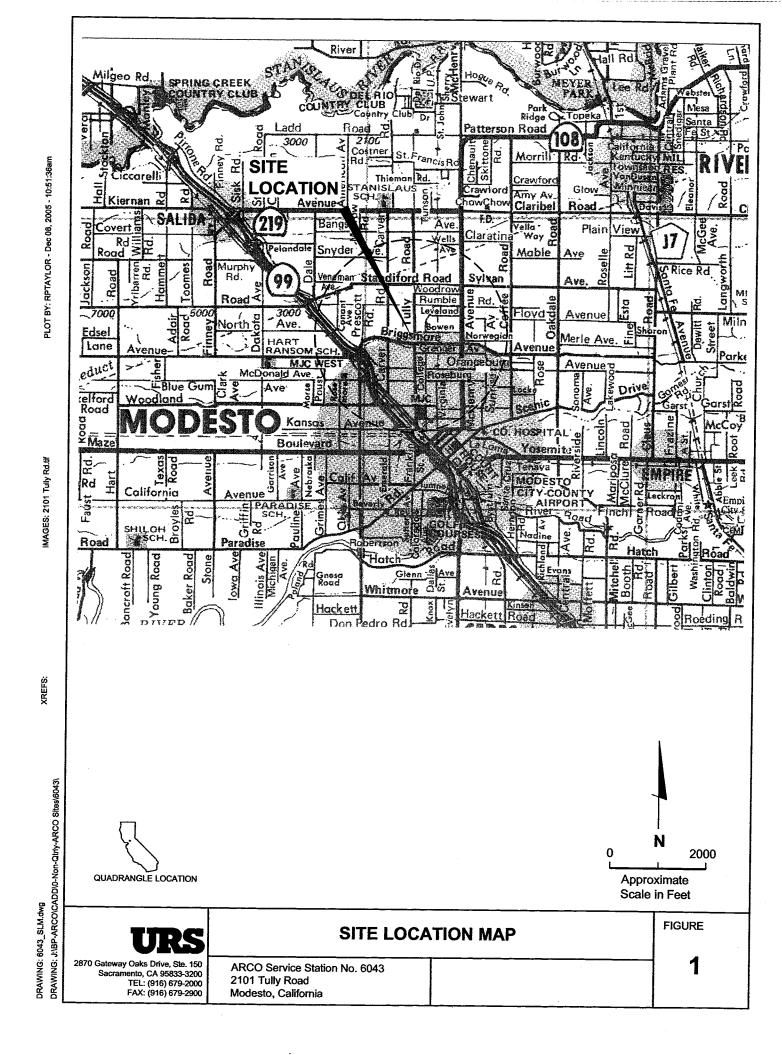
cc: Mr. Paul Supple, Atlantic Richfield Company

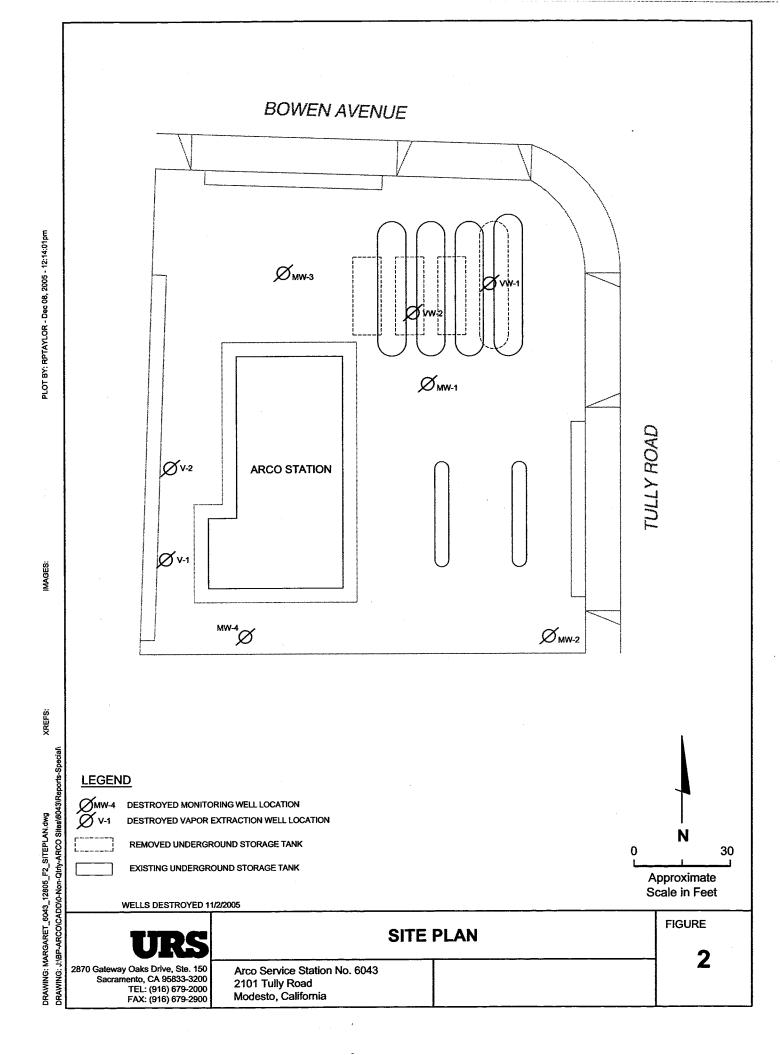
Mr. Mike Smith, RWQCB

Ms. Wendy Correia, City of Modesto

Project File







#### ATTACHMENT A

SCDER and City of Modesto Well Destruction Permits

#### DEPARTMENT OF ENVIRONMENTAL RESOURCES



3800 Comucopia Way, Suite C, Modesto, CA 95358-9492 Phone: 209.525.6700 Fax: 209.525.6774

September 21, 2005

Mr. Paul Supple ARCO Products Company Moraga, CA 94570

RE: WELL DESTRUCTION WORK PLANS VARIOUS ARCO SITES, STANISLAUS COUNTY.

Dear Mr. Supple:

I have reviewed the *Well Destruction Work Plans* for the following ARCO sites located within Stanislaus County.

- 1. ARCO No. 6043, 2101 Tully Road, Modesto.
- 2. ARCO No. 5505, 2033 Standiford Avenue, Modesto.
- 3. ARCO No. 5421, 2507 9th Street, Ceres.

The Work Plans propose to destroy all existing groundwater monitoring wells at the sites listed above. Each of these sites was closed with concurrence from the Regional Water Quality Control Board. In accordance with policy, SCDER has withheld issuance of the Remedial Action Completion Certification (RACC) for each of the sites due to the fact that ARCO elected to retain the monitoring wells. Upon receipt of notification of proper well destruction, the Department will proceed to issue the RACC for each site. The work plans are approved at this time.

I am including a *Notice of Proposed Action* for each of the sites. Please fill out the fee title owner for each property and return them to my office. Please be aware that the RACC notification cannot be issued without receipt of the notices. If you have any questions please feel free to contact me at (209) 525-6725, or by email at ndamin@envres.org.

Sincerely,

Nicole Damin

Senior Hazardous Materials Specialist

CC:

File 2101 Tully Road
File 2033 Standiford Ave
File 2507 9th Street
RWQCB Newman/Smith
URS Corporation - Mr. Vern Elarth

# PERMIT NO. W 4362

## CITY OF MODESTO

Modesto, CA 95353 1010 Tenth Street **Public Works** P.O. Box 642

10/3/2005	
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From	
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14,290,00 001 03 2005 10:11 AP ENCROACHMENT INSPECTION FE

> Development Services, Suite 4100 Permits Tel. No. (209) 571-5569

Permits Fax: (209) 577-5461 Inspection: (209) 577-5452

2261
6-679-9
916-
phone

fax: 916-679-2900	email:	
Attn: Margaret Hogaboom	Street Address: 2870 Gateway Oaks Dr. #300	ate, & Zip Code: Sacramento, CA 95833

City, State, & Zip Code: Sacramento, CA 95833

Attn: Margaret Hogaboom

Applicant/Owner: URS

phone:	fax:	email:
Contractor: Woodward Drilling Attn:	Street Address: P O Box 336	City, State, & Zip Code: Rio Vista, CA 94571

Z101 July Road				Plans /	Plans Attached*:	<b>\</b>	2
Description	[	27.77		_			:
	Š	יחונו	wy Out out Cost	Total	· ·	Tan	Fran Code
Monitoring Well/Emergency Extraction Well			673	ψ.			
or other excavation that may intersect groundwater			6/3	<b>4</b>			
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Inspection Fee	<b>B</b> O	өа	\$ 96.00	59	768.00	36	3015
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SEE ADDITIONAL REGISTERMENTS ATTACHED	5	T		•	· 		
	בי		ı	<del>/)</del>			
Copies of all reports generated as a result of this Well/Boring	loring						
will be submitted to the City of Modesto, Water Division, Pumps	Pumps		TOTAL	•	0000		
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Traffic Controls	Detour Plan	Police Notification	Fire Notification	Public Release

& Maint. Supervisor

ADMINISTRATIVE CHECKS

FEES/REIMBURSEMENTS	CFF Fee	CFD Fee	CFF Reimbursement	CFD Reimbursement	Trench Cut Ordinance

	sement	rsement	rdinance	
CFD Fee	CFF Reimbursement	CFD Reimbursement	Trench Cut Ordinance	

Sewer Reimbursement Water Reimbursement

Storm District Fee Canal District Fee

 Permit Distribu	Applicant	CAO

10/3/2005

DATE:

W. Correia Robert Snell

PERMIT ISSUED BY: ASSIGNED INSPECTOR: INSPECTOR'S ACCEPTANCE:

DATE

tribution:	File (original)	Police
Permit Distribution	Applicant	CAO

# STANDARD ENCROACHMENT PERMIT CONDITIONS

The following conditions are for the City standard encroachment permit:

- Call the inspector 48 hours BEFORE starting work AND for final inspection -- 577-5452.
- Perform work according to City of Modesto Standard Specifications and MMC Sec. 7-2.01 et seq and Sec 7-1.105 et seq.
- Call USA at 800-642-2444 and 800-227-2600 and MID at 209-526-7373 for utility locations at least 48 hours before digging. Other companies include, but are not limited to: PG&E, SBC, and Comcast.
  - Provide a copy of these permit conditions to ALL contractors doing work covered under this permit.
- Construct subdivision improvements in accordance with approved plan set. Inspection fees to be reimbursed in accordance with Subdivision Agreement and/or Modesto Municipal Code (MMC).
- Prior to receiving any water taps, the developer shall pay the water service connection charges.
- Prior to issuance of the permit for a project over 1 acre, the contractor or developer shall provide the Developer/Contractor Information and a copy of the Notice of Intent (NOI) filed with the Water Resources Board. In compliance with the Water Resources Board, the Stormwater Pollution Prevention Plan is required to be onsite. A copy of the NOI shall be attached to this permit.
- A copy of the City of Modesto Erosion and Sediment Control and Standard Specifications for Construction Activities is available at Kinko's or on the City of Modesto's Website (www.ci.modesto.ca.us), ထ
- For projects with no existing concrete or asphait, an aggregate pad shall be constructed at each ingress and egress point to the street pavement. o)
  - Off-site inlets adjacent to your project shall have filter screens placed in the grates to prevent silt contamination. These shall be maintained during the entire duration of the project.
- All CFD, CFF and reimbursable utility line construction work shall be permitted by a separate agreement. No work shall be done on these items until a reimbursement agreement is executed and a permit is issued specifically for the items. Ξ
  - No landscaping work is permitted unless plans are approved by the Parks, Recreation and Neighborhoods Department. 42

Street and Alley Closures / Traffic Control

- Call Fire and Police at 572-9679 BEFORE closing any part of the street or alley.
- Open all traffic lanes during peak hours: Mon-Fri: 7:30 8:30 AM; 4:30 5:30 PM.
- public waming signs of the pending closure. The traffic plan shall be approved a minimum of 2 weeks prior to pending closure. The traffic plan Full street closures will require a separate permit. Street closure permits will be conditioned to post all streets converging to this location with will address the detour of traffic. The permit will minimize the amount of time the closure is in effect.
  - Partial street closures may be coordinated with the inspector. Partial street closures may be limited in time to 8:30 am to 4:30 pm, All construction traffic control shall follow the Caltrans manual. 9

ADDITIONAL CONDITIONS:

APPLICANT'S SIGNATURE: \_\_

## ADDITIONAL PERMIT REQUIREMENTS Permit #W

- 1 Driller is responsible for protecting all City utilities impacted by this scope of work.
- A copy of all reports generated by the installation of these wells or borings must be sent to:

City of Modesto, Water Division
Pumps and System Maintenance Supervisor
P. O. Box 642
Modesto, CA 95353

**AND** 

Stanislaus County - DER Nicole Damin 3800 Cornucopia Way, Suite C Modesto, CA 95358

3 Contractor is responsible for contacting USA to have ALL utilities marked prior to starting any work related to this permit.

## APPLICATION TO INSTALL MONITORING WELL(S), EMERGENCY EXTRACTION WELL(S), OR ANY OTHER EXCAVATION(S) THAT MAY INTERSECT GROUNDWATER WITHIN THE CITY OF MODESTO.

		4 VER
1.	Location of Well Site:	2101 Tully Road No. of Wells: 4 m #
2.	Applicant-Company:	BP-ARCO
	Mailing Address:	6 Centropointe Dr. La Palone, (A 90623
	Telephone No:	Call URS Authorized Agent: URS
3.	Consulting Firm:	URS
•	Mailing Address:	2870 Guteway Oaks Dr. #300, Sacramato, CA
	Telephone No:	216 679 2261 Point of Contact: Mike +111
4.	Contractor/Driller:	Woodward Drilling
	C57 License Number;	581639

The undersigned requests that the City of Modesto grant permission pursuant to Sections 5-1.501 and 5-1.505 of the Modesto Municipal Code to install, construct, repair, modify, or destroy a water well, observation well, monitoring well, or any other excavation that may intersect groundwater in the City for any purpose whatsoever.

The undersigned agrees to the following provisions:

- 5. The installation of the wells shall be subject to the supervision of the Engineering and Transportation Director of the City of Modesto and the Environmental Resources Department of the County of Stanislaus.
- The installation shall be made in accordance with all requirements of the laws of the State of California, County of Stanislaus, and the City of Modesto. Installation shall meet all requirements set forth in the latest revision of the State Department of Water Resources Bulletin 74-81, Water Well Standards: State of California and supplement No. 74-90, California Well Standards: Water Wells, Monitoring Wells, Cathodic Protection Wells.
- 7. When the wells are no longer required, the undersigned shall abandon and permanently seal them in accordance with the requirements of Engineering and Transportation Director. The undersigned agrees at its sole cost and expense, in accordance with applicable laws, to permanently and effectively abandon any well(s) that it has installed thereon according to the latest revision of the State Department of Water Resources Bulletin 74-81 and 74-90. Said abandonment shall be done to the reasonable satisfaction of the City of Modesto's Engineering and Transportation Director, or his authorized representative.

- 8. In the event that the undersigned fails to vacate and abandon the well(s) when no longer required, then the City of Modesto, or its authorized agents, may enter upon the premises and abandon the well(s) in accordance with paragraph 3. In such case, the undersigned agrees to reimburse the City of Modesto for any and all reasonable expenses it may so incur and waive any and all claims for damages against the City of Modesto, it's agents or employees.
- All construction, repair, modification, destruction, or abandonment of permitted wells shall be subject to the supervision of the CITY and the Environmental Resources Department of Stanislaus County.
- The undersigned agrees that the permission granted hereby will be binding on all of its successor's, assigns and heirs.

Stanislaus County Department of Environmental Resources signifies by the signature below that it has received and reviewed the initial work plan proposal.

Stanislaus County Department of Environmenta Resources Division of Hazardous Materials

Please Note: Actual construction, repair, modification, destruction, or abandonment cannot begin until the Stanislaus County Department of Environmental Resources has reviewed and approved the initial work plan. Any well information generated, as a result of this effort, shall be released to the CITY and the Department of Environmental Resources.

I/We agree to the above:	
URS	
Name of Company	
colone	م-
Signature of Authorized Agent	0
<i>beologist</i>	8/00/05
Title of Authorized Agent	Date

Permission to install monitoring test well(s) and/or Emergency extraction well(s) on the above referred to Property located in the City of Modesto, in accordance with The provisions of Section 5, Article 5, Construction, Operations, and Maintenance of Wells and subject to the above conditions. In addition, actual installation/abandonment cannot begin until the County Department of Environmental Resources has also <u>approved</u> the project.

#### ATTACHMENT B

Drum Comp Laboratory Analytical Report



8 November, 2005

Vernon P. Elarth URS Corporation [Arco1] 2870 Gateway Oaks Dr., Ste 300 Sacramento, CA 95833

RE: ARCO #6043, Modesto, CA

Work Order: MOK0106

Enclosed are the results of analyses for samples received by the laboratory on 11/03/05 08:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lisa Race

Senior Project Manager

CA ELAP Certificate #1210

The results in this laboratory report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the BPGCLN Technical Specifications, applicable Federal, State, local regulations and certification requirements as well as the methodologies as described in laboratory SOPs reviewed by the BPGCLN. This entire report was reviewed and approved for release.





Project:ARCO #6043, Modesto, CA

Project Number: G0C1X-0002
Project Manager: Vernon P. Elarth

MOK0106 Reported: 11/08/05 08:27

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
DRUMCOMP6043	MOK0106-01	Soil	11/02/05 16:30	11/03/05 08:30
TBARCO6043-110205	MOK0106-02	Water	11/02/05 16:45	11/03/05 08:30

The carbon range for the TPH-GRO has been changed from C6-C10 to C4-C12. The carbon range for TPH-DRO has been changed from C10-C28 to C10-C36. EPA 8015B has been modified to better meet the requirements of California regulatory agencies. These samples were received with intact custody seals.





Project:ARCO #6043, Modesto, CA Project Number:G0C1X-0002 Project Manager:Vernon P. Elarth MOK0106 Reported: 11/08/05 08:27

#### Purgeable Hydrocarbons and BTEX by EPA 8015B/8021B Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DRUMCOMP6043 (MOK0106-01) Soil	Sampled: 11/0	02/05 16:30	Received	: 11/03/05	5 08:30	-			
Gasoline Range Organics (C4-C12)	ND	0.10	mg/kg	1	5K04001	11/04/05	11/04/05	EPA 8015B/8021B	<del></del>
Benzene	ND	0.0010	**	n	"	11	11	n	
Toluene	ND	0.0010	11	n	**	"	P	**	
Ethylbenzene	ND	0.0010	H .	**	**	**	n	· n	
Xylenes (total)	ND	0.0010	H	n	Ħ	**	n	H	
Surrogate: a,a,a-Trifluorotoluene		109 %	64-1	45	"	n-	"	"	
Surrogate: 4-Bromofluorobenzene		89 %	56-1	20	"	"	n	"	





Project:ARCO #6043, Modesto, CA Project Number:G0C1X-0002

Project Manager: Vernon P. Elarth

MOK0106 Reported: 11/08/05 08:27

#### Total Metals by EPA 6000/7000 Series Methods Sequoia Analytical - Morgan Hill

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DRUMCOMP6043 (MOK0106-01) Soil	Sampled: 11/02	/05 16:30	Received	1: 11/03/0	5 08:30				
Lead	ND	5.0	mg/kg	1	5K07023	11/07/05	11/07/05	EPA 6010B	





Project:ARCO #6043, Modesto, CA Project Number:G0C1X-0002 Project Manager:Vernon P. Elarth

Spike

Source

%REC

MOK0106 Reported: 11/08/05 08:27

RPD

## Purgeable Hydrocarbons and BTEX by EPA 8015B/8021B - Quality Control Sequoia Analytical - Morgan Hill

Reporting

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 5K04001 - EPA 5035 heated p	rg / EPA 8015	B/8021B				·				
Blank (5K04001-BLK1)				Prepared &	k Analyze	d: 11/04/0	05			
Gasoline Range Organics (C4-C12)	ND	0.10	mg/kg							-
Benzene	ND	0.0010	11							
Toluene	ND	0.0010	11			ė				
Ethylbenzene	ND	0.0010	ır							
Xylenes (total)	ND	0.0010	n							
Surrogate: a,a,a-Trifluorotoluene	0.0423		"	0.0400		106	64-145			
Surrogate: 4-Bromofluorobenzene	0.0383		"	0.0400		96	56-120			
Laboratory Control Sample (5K04001-B	S1)			Prepared &	& Analyz	ed: 11/04/0	05			
Gasoline Range Organics (C4-C12)	0.257	0.10	mg/kg	0.275		93	55-140			
Benzene	0.00417	0.0010	н	0.00410		102	75-150			
Toluene	0.0229	0.0010	**	0.0207		111	65-120			
Ethylbenzene	0.00451	0.0010	**	0.00485		93	65-125			
Xylenes (total)	0.0272	0.0010	**	0.0238		114	65-125			
Surrogate: a,a,a-Trifluorotoluene	0.0445		"	0.0400		111	64-145			
Surrogate: 4-Bromofluorobenzene	0.0404		"	0.0400		101	56-120			
Matrix Spike (5K04001-MS1)	Source: Me	OK0106-01		Prepared &	& Analyz	ed: 11/04/	05			
Gasoline Range Organics (C4-C12)	0.119	0.10	mg/kg	0.275	ND	43	55-140	-		Lì
Benzene	0.00335	0.0010	17	0.00410	ND	82	75-150			
Toluene	0.0181	0.0010	"	0.0207	ND	87	65-120			
Ethylbenzene	0.00320	0.0010	**	0.00485	ND	66	65-125			
Xylenes (total)	0.0194	0.0010	**	0.0238	ND	82	65-120			
Surrogate: a,a,a-Trifluorotoluene	0.0419		"	0.0400		105	64-145			
Surrogate: 4-Bromofluorobenzene	0.0275		"	0.0400		69	56-120			
Matrix Spike Dup (5K04001-MSD1)	Source: M	OK0106-01		Prepared of	& Analyz	ed: 11/04/	05			
Gasoline Range Organics (C4-C12)	0.172	0.10	mg/kg	0.275	ND	63	55-140	36	20	В
Benzene	0.00361	0.0010	"	0.00410	ND	88	75-150	7	20	
Toluene	0.0196	0.0010	11	0.0207	ND	95	65-120	8	20	
Ethylbenzene	0.00366	0.0010	n	0.00485	ND	75	65-125	13	20	
Xylenes (total)	0.0215	0.0010	••	0.0238	ND	90	65-120	10	20	
Surrogate: a,a,a-Trifluorotoluene	0.0416		"	0.0400		104	64-145			
Surrogate: 4-Bromofluorobenzene	0.0369		"	0.0400		92	56-120			





Project:ARCO #6043, Modesto, CA Project Number:G0C1X-0002 Project Manager:Vernon P. Elarth MOK0106 Reported: 11/08/05 08:27

#### Total Metals by EPA 6000/7000 Series Methods - Quality Control Sequoia Analytical - Morgan Hill

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 5K07023 - EPA 3050B / EPA (	6010B									
Blank (5K07023-BLK1)				Prepared	& Analyz	ed: 11/07/	05		_	
Lead	ND	5.0	mg/kg							
Laboratory Control Sample (5K07023-B	S1)			Prepared	& Analyz	ed: 11/07/	05			
Lead	38.5	5.0	mg/kg	50.0		77	75-120			
Matrix Spike (5K07023-MS1)	Source: M	OK0106-01		Prepared	& Analyz	ed: 11/07/	05			
Lead	39.5	5.0	mg/kg	50.0	2.2	75	75-120			
Matrix Spike Dup (5K07023-MSD1)	Source: M	OK0106-01		Prepared	& Analyz	ed: 11/07/	05			
Lead	40.2	5.0	mg/kg	50.0	2.2	76	75-120	2	20	





URS Corporation [Arco1] Project:ARCO #6043, Modesto, CA MOK0106
2870 Gateway Oaks Dr., Ste 300 Project Number:G0C1X-0002 Reported:
Sacramento CA, 95833 Project Manager:Vernon P. Elarth 11/08/05 08:27

#### **Notes and Definitions**

LN	MS and/or MSD below acceptance limits. See Blank Spike(LCS).
BA	Relative percent difference out of control
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

# Chain of Custody Record

ARCO 2168 RAP Implementation Project Name: ARCO 2168 RAP BP BU/AR Region/Enfos Segment:

BP > Americas > West Coast > Retail > WCBU > CA > Central > 2168 > HistoricalBL

San Joaquin County Environmental Management Dept.

11/11/05 Requested Due Date (mm/dd/yy): State or Lead Regulatory Agency:

あのでいい 19-09 Page\_L of Direction: Temp: Temp: Meteorological Events: Windy Off-site Time: 1730 Sky Conditions: Overcast 10-30. On-site Time: 0400 Wind Speed:

1	at Name. Comois				lab/	RP/AR Pacility No .	4	4	800	SHOW LOWS	3		<u> </u>	Consultant/Contractor:	Contrac	or:	URS		
Add	Address: 885 Jarvis Drive				BP/	BP/AR Facility Address: 4412W Charter-Way, Stockton, GA 95266	ess: 4	T T	arter 🛂	ery. Stee	kton, C.	\$9256*V		Address:	2870	Gatew	ay Oaks Dri	2870 Gateway Oaks Drive, Suite 300 (50	5
	Morgan Hill. CA 95037				Site	Site Lat/Long:	幸	1	210/	12/2	DR	HE DOID FULL DR Modest	X	A	Sacr	amento,	Sacramento, CA 95833	-	
13	ab PM: Lisa Race				Cali	California Global ID No.:	No.:	100	-TC507700508	J	<u> </u>			Consultant/Contractor Project No.:	Contrac	or Proje		38466562,0095001	
Tele	Tele/Fax: 408.782.8156 / 408.782.6308				Enfc	Enfos Project No.:	₽	-G0C81=0010	Đ				ප	Consultant/Contractor PM:	Contrac	or PM:	, >	Vernon Elarth	
BA'	BP/AR PM Contact: Keylo-Christic Yaw		Supple		Prov	Provision or RCOP:	Pr	Provision					Te	Tele/Fax:	916.	717.504	916.717.5045/916.679.2900	2900	
Add	•				Phas	Phase/WBS:	9-R	P Imple	09 - RAP Implementation	lon			8	Report Type & QC Level:	c & QC	Level:	Level 1 with EDP	BDF	
	1986	Mercaga	ر لا		Sub	Sub Phase/Task:	3 - Ar	03 - Analytical					핊	E-mail BDD To:		Denise	Denise Yee@urscorp.com	com	
Tele	Tele/Fax: 714.670.5303 / 714.670.3195	)	,		Cost	Cost Element:	)5 - Su	bcontra	05 - Subcontracted Costs	its			Į	Invoice to:	Alta	ıtic Ric	Altantic Richfield Co-		
Lab	Lab Bottle Order No:			Matrix				Pr	Preservative	ive			Request	Requested Analysis	/sis				
Item No.	n Sample Description	əmiT	Date	Soil/Solid Water/Liquid	τiA	Laboratory No.	No. of Containers	H <sub>2</sub> SO <sub>4</sub>	HCI HNO³	Methanol	વુલ૧૯૪	99109					Sample Poh	Sample Point Lat/Long and Comments	mments
	Drumcomports	823		X		10		Į.			X	X				-	94	48 hour-TAT	
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San	Sampler's Name: White A.	+50	Mondage Man	3		, Relingu	ishod B	Relinguishod By / Affiliation	ation		Date	te T	Tine	1	Accep	ted By /	Accepted By / Affiliation	Date	Time
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<u>ا</u> ر	No Vest In Diago Ves			Lemi	Temp Blank Yes	No			රි	oler Tei	nperati	Cooler Temperature on Receipt 3,5 °F/C	eceipt	3,5%	2/2	Tri	Trip Blank Yes	No /	
	Principal Seats III I lace 1 to 1 t	/ ractors	Vallen		AD/At	antic Richfield	ی	Pink (	) - Auo.	Consult	ant/Cor	tractor					BP COC Rev. 4 10/1/04	4 10/1/04	

Distribution: White Copy - Laboratory / Yellow Copy - BP/Atlantic Richfield Co. / Pink Copy - Consultant/Contractor

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CLIENT NAME: $M25$ For Regulatory Purposes rec. by (PRINT) $MUCO5$ Time Rec'd at Lab: $6.30$ Drinking water yes workorder: $1/305$ Drinking water yes workorder: $1/305$ Date Logged in; $1/305$ Waste water yes	70	Agentalian and a second	DATE REC'D AT LAB: TIME REC'D AT LAB: DATE LOGGED IN:	8:30				For Regulatory Pur DRINKING WATER WASTE WATER	For Regulatory Purposes?  DRINKING WATER YES INO WASTE WATER YES I NO
CIRCLE THE APPROPRIATE RESPONSE	LAB SAMPLE#	DASH #	CLIENT ID.	CONTAINER DESCRIPTION	PRESERV ATIVE	. Hq	SAMPLE MATRIX	DATE SAMPLED	REMARKS: CONDITION (ETC.)
1. Custody Seal(s) (Present Absent									
2. Chain-of-Custody (Present)/ Absent*					• .	-			
3. Traffic Reports or Present (Absent									
	•				·			ŀ	
Present Absent 5 Airlill #: 1310 1155 70544	-		•						
S:	÷						,		
7. Sample IBs: Listed Not Listed									
on Chain-of-Custody			•						
8. Sample Condition: (Intact/ Broken*/									•
Leaking*						1			
9. Does information on chain-of-custody,	j			77					
traffic reports and sample labels	*								
agree? (Yes //No*					2			- T	
ceived within									
hold time?	14							:	
111. Adequate sample volume received?									
eservatives used? (Yes	,								
13. (Trip Blank / Temp Blank Received?)		:							
(circle which, if yes) (feg / No*									
14. Read Temp:					·			-	•
Corrected Temp:									•
Is corrected temp 4 +/-2°C? (Yes) No**				,			·		
(Acceptance range for samples requiring thermal pres.)									
**Exception (if any): METALS / DFF ON ICE						.			
or Problem COC						1			
THE THE PROPERTY OF THE PROPER	CHIC HIX		FD. CONTACT PROJECT MANAGER AND ATTACH RECORD OF RESOLUTION.	ANAGER AND	ATTACH	3ECOR	D OF RES	OLUTION.	MANUAL PROPERTY OF THE PROPERT
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SRL Revision 7 SRL Replaces Rev 5 (07/13/04)

5	2

## Chain of Custody Record

Project Name: ARCO 6043
BP BU/AR Region/Enfos Segment:

Sacramento County Dept. of Env. Mgment State or Lead Regulatory Agency: Sacramerto County Requested Due Date (mm/dd/yy):

BP > Americas > West Coast > Retail > WCBU > CA > Northern > 6043 > HistoricalBL

Direction: Tenp: Temp: Meteorological Events: Off-site Time: Sky Conditions: On-site Time: Wind Speed:

Page\_\_\_of\_\_

Time  Date  Time  Time  Date  Time  Date  Time  Date  Time  Date  Time  Date  Time  Time  Date  Time  Time  Date  Time  Time  Date  Time	1972   1972	46	ob Name: Cequain				12	OD/AD Davilian No.	,	6042										
Time	Tinne  Bate  Coar Bearrin  Date  Date  Date  Tinne  Date  Tinne  Date  Tinne  Date  Tinne  Date  Tinne  Date  Tinne  Date  Dat	N E	ess: 885 Jarvis Drive					P/AR Facility Add	216		Post Mo	o coo			A didraga:	2870 C	OKS	Stole Daine Cuite	1 60	Ī
California Obbal ID No. T0609900177   Consultant/Contractor Project Place Project No. GOCIX.0002   Consultant/Contractor Project Place Project No. GOCIX.0002   Consultant/Contractor Project Place Place Place Place Place Project Place Plac	Time   Date   Culifornia Glabal ID No.   T0609900177   Consultant Contractor Policy   Consultant Contractor		Morgan Hill, CA 95037					ite Lat/Long:	Ž		concern the concer	5			Junion.	Sacram	ento CA	95833	2001	
Provision or RCOP: Provisional   Preservative   P	Paris Project No.   Concentrant/Contractor Philippe   Paris   Project No.   Concentrant/Contractor Philippe   Paris   Project No.   Concentrant/Contractor Philippe   Paris   Project No.   Concentrant/Contractor Philippe   Paris   Project No.   Concentrant/Contractor Philippe   Paris   Project No.   Concentration of Rock College	Lab.	PM: Lisa Race				10	alifornia Global ID	So.	T0609	7/1006				Consultant/	Contractor	Project No		0063001	
Provision of RCOP: Provisional   Provision	Provision of RCOP: Provisional   Provision	Tele	Fax: 408.782,8156 / 408.782,6308				B	nfos Project No.:	පි	00-X1	72				Consultant/	Contractor	PM:		arth	
Tinne  Date    Date   D	Phase-WPES. OS - Closure   Sub Phase-That: GS - Analytic Requested Analysis   Cot Element: GS - Analytic Red   Cot Element: GS - Cot Element: GS - Analytic Red   Cot Element: GS - Cot	BP/A	AR PM Contact: Chuck Carmel				<u>~</u>	rovision or RCOP:	Po	visional					Tele/Pax:	916.679	9/5520	16,679,2900		
Sub Phase Trast: 03 - Analytical   Cost Heumen: 05 - Subcommend Costs   Freetralities   Cost Heumen: 05 - Subcommend Costs   Ilwoice Dr. Altanific Rich   Ilwoi	Sub Phase Trask: G3 - Analytical  Tituse  Date    Cost Heumen: G5 - Subcominated Costs   Preservative   Preserv	Addr	ess: P.O. Box 977				Ь		)6 - Clo	surc					Report Type	& OC Lev	rel: Leve	el 1 with EDF		
Time	Time   Date   Dillact (lises/delliardenvironmental.com)   Date		Alamo, CA 94507-7977				S		3 - Ana	lytical					B-mail EDI			urscorp.com		
Tibrate  Date  Tibrate  Tibrate  Date  Date  Date  Methanol  Action Containers  Methanol  Action Containers  Methanol  Methano	Time	Tele/	Fax: 925.946.1085 / 925.946.1084				O		)5 - Sub	contract	ed Costs				Invoice to:	١Ħ	Richfield	d Co.		
Time  Date  Soil/Soilid  WaterLiquid  WaterL	Tinne  Ti	Lab	Bottle Order No:			Mat	_			Pre	ervative	-		Regu	ested Analy	sis				
	Fig. 20   Fig.	Item No.	Sample Description	•miT	Date		τίΑ	Laboratory No.			HCI	GRANK TRANSFORE	Total Lead by 2007 Coios				Sam	MOK 12/	ng and Co	mments
Figgs   Figg	Fig. 20		Daumcon Phones						义 _				i							
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Relinquisher By / Affiliation   Accepted By / Affiliation   Date	Relinquisher by / Affiliation   Relinquisher by / Affiliation   Date   Accepted By / Affiliation   Date	٥	-					000				ď	1		ં	ָג גע		•		
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	boratory / Yellow Copy - BP/Atlantic Richfield Co. / Pink Copy - Consultant/Contractor	Custo	dy Seals In Place Yes No	1		Temp	Blank	res No			Cooler	Lemper	ature on	Receip		. ,	Trip Blar		1	

#### **Electronic Submittal Information**

Main Menu | View/Add Facilities | Upload EDD | Check EDD

Your EDF file has been successfully uploaded!

Confirmation Number: 8888758122

**Date/Time of Submittal: 2/1/2006 1:57:54 PM** 

Facility Global ID: T0609900177 Facility Name: ARCO # 6043

**Submittal Title:** Well Destruction Report 2005

**Submittal Type:** WDR Reports

Click here to view the detections report for this upload.

ARCO # 6043 Regional Board - Case #: 500203

**2101 TULLY** CENTRAL VALLEY RWQCB (REGION 5S) - (MTS)

MODESTO, CA 95350 Local Agency (lead agency) - Case #: 164 STANISLAUS COUNTY LOP - (ND)

NOTE: THIS DATA WAS SUBMITTED AFTER THE SITE WAS CLOSED

CONF# TITLE **QUARTER** Well Destruction Report 2005 8888758122 Q4 2005

SUBMITTED BY **SUBMIT DATE** 

PENDING REVIEW Denise Yee 2/1/2006

#### SAMPLE DETECTIONS REPORT

# FIELD POINTS SAMPLED 1 # FIELD POINTS WITH DETECTIONS 0 # FIELD POINTS WITH WATER SAMPLE DETECTIONS ABOVE MCL U SAMPLE MATRIX TYPES SOIL

#### METHOD QA/QC REPORT

METHODS USED SW6010B,SW8021F TESTED FOR REQUIRED ANALYTES?

MISSING PARAMETERS NOT TESTED:

- SW8021F REQUIRES MTBE TO BE TESTED
- SW8021F REQUIRES ETBE TO BE TESTED
- SW8021F REQUIRES TAME TO BE TESTED
- SW8021F REQUIRES DIPE TO BE TESTED
- SW8021F REQUIRES TBA TO BE TESTED
- SW8021F REQUIRES DCA12 TO BE TESTED
- SW8021F REQUIRES EDB TO BE TESTED

LAB NOTE DATA QUALIFIERS Υ

#### QA/QC FOR 8021/8260 SERIES SAMPLES

TECHNICAL HOLDING TIME VIOLATIONS 0 METHOD HOLDING TIME VIOLATIONS 0 LAB BLANK DETECTIONS ABOVE REPORTING DETECTION LIMIT 0 LAB BLANK DETECTIONS DO ALL BATCHES WITH THE 8021/8260 SERIES INCLUDE THE FOLLOWING? - LAB METHOD BLANK - MATRIX SPIKE Υ - MATRIX SPIKE DUPLICATE Υ - BLANK SPIKE Υ - SURROGATE SPIKE

#### WATER SAMPLES FOR 8021/8260 SERIES

MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) % RECOVERY BETWEEN 65-135% n/a MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) RPD LESS THAN 30% n/a SURROGATE SPIKES % RECOVERY BETWEEN 85-115% n/a

BLANK SPIKE / BLANK SPI	KE DUPLICATES % RECOVERY	BETWEEN 70-130%	n/a
SOIL SAMPLES FOR	8021/8260 SERIES		
MATRIX SPIKE / MATRIX S	PIKE DUPLICATE(S) % RECOV	ERY BETWEEN 65-135%	Υ
MATRIX SPIKE / MATRIX S	SPIKE DUPLICATE(S) RPD LESS	THAN 30%	Υ
SURROGATE SPIKES % RE	COVERY BETWEEN 70-125%		Υ
BLANK SPIKE / BLANK SPI	KE DUPLICATES % RECOVERY	BETWEEN 70-130%	n/a
FIELD QC SAMPLES			
FIELD QC SAMPLES SAMPLE	COLLECTED	DETECTIONS >	
FIELD QC SAMPLES  SAMPLE QCTB SAMPLES	COLLECTED N		
FIELD QC SAMPLES SAMPLE	COLLECTED		

Logged in as URS-SAC (CONTRACTOR)

CONTACT SITE <u>ADMINISTRATOR</u>.